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Pioneering a path to the future with JBoss Business Process Management

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Road Map

- About SNS Bank
- Vision and Strategy
- BPM Architecture
- BPM Impact
- Lessons learned
- Conclusions











- One of the top 4 Dutch financial institutions
- Established in 1817
- Focus on retail banking:

JBoss

- Mortgages, Savings & Investments
- Our values:
 - Personal, Accessible & Innovative









SNS Bank's Vision back in 2006

- Increased competition leads to narrower interest margins
- An office based organisation is a **costly** distribution channel
- Internet becomes increasingly important in the orientation and sales cycle
- Online banking is the future
- At the same time, the need for quality and independent advice increases
- The value is in the relationship with the client, not in the relationship with the product







A New Strategy

- The customer behind the steering wheel:
 - A fully-fledged online bank
 with sales and services
 - Simple processes based
 - on self-service
 - 5-clicks, paperless and in realtime



=> We need "Straight-Through-Processing" (STP)







The Solution

- This calls for a whole new architecture
- Enabling legacy systems to participate at any time
- Automating and managing our Business Processes

Ouch!! this sounds very expensive..







OSS to the rescue!

- We found the treasure to be in Open Source Software
- E.g. migrating our AIX servers with IBM WebSphere AS to Suse Linux servers with JBoss AS in 2005

Reduced costs by 90% (saving millions of \$)



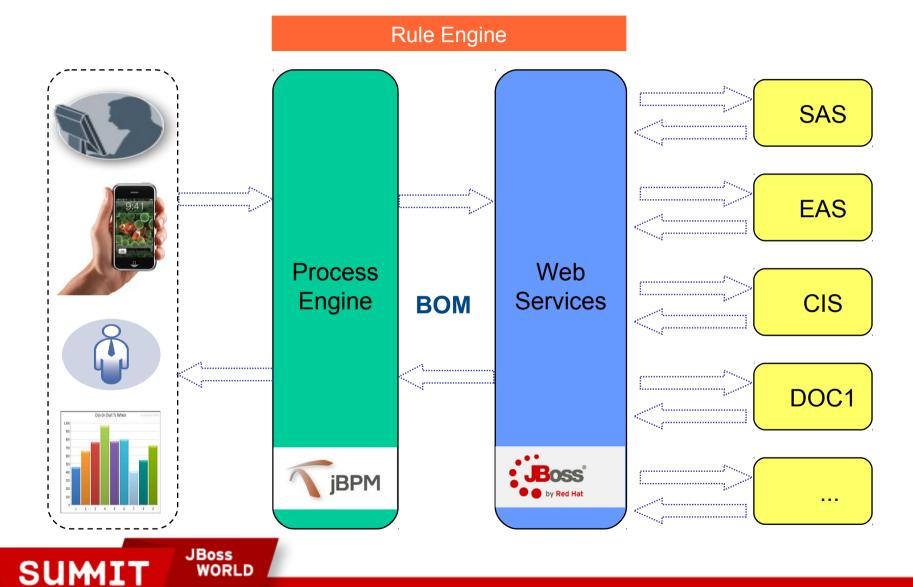
=> New policy: OSS, unless..







The BPM Architecture



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The BPM Architecture (2)

- Java based
- Running on JBoss EAP 4.3
 (All except the legacy systems)
- Providing a canonical data model (our BOM)
- Used as a common language for services and business processes (e.g. Customer, Contract, Lead/Deal, ...)
- Invoked by various distribution channels



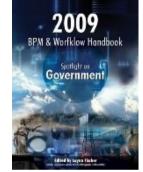


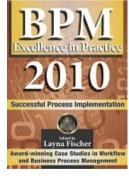


Survival in the Financial Crisis (I)

- Our BPM architecture in action
 - Time line of events:
 - Aug 2008 first BPM savings products online
 - Mar 2008 first draft to BPM 2008
 - Sep 2008 crisis hits... recorded impact BPM
 - Oct 2008 presented JFall 2008 (NLJUG)
 - Nov 2008 chapter CaiSE / PRET 2009
 - Dec 2008 chapter to BPM & Worlflow Handbook 2009
 - Apr 2009 published BPM & Workflow Handbook 2009
 - Jun 2009 published CaiSE / PRET 2009
 - Aug 2009 letter to President Obama
 - Nov 2009 Silver award BPM Excellence in Europe
 - Sep 2010 final publishing BPM Excellence in Practice 2010







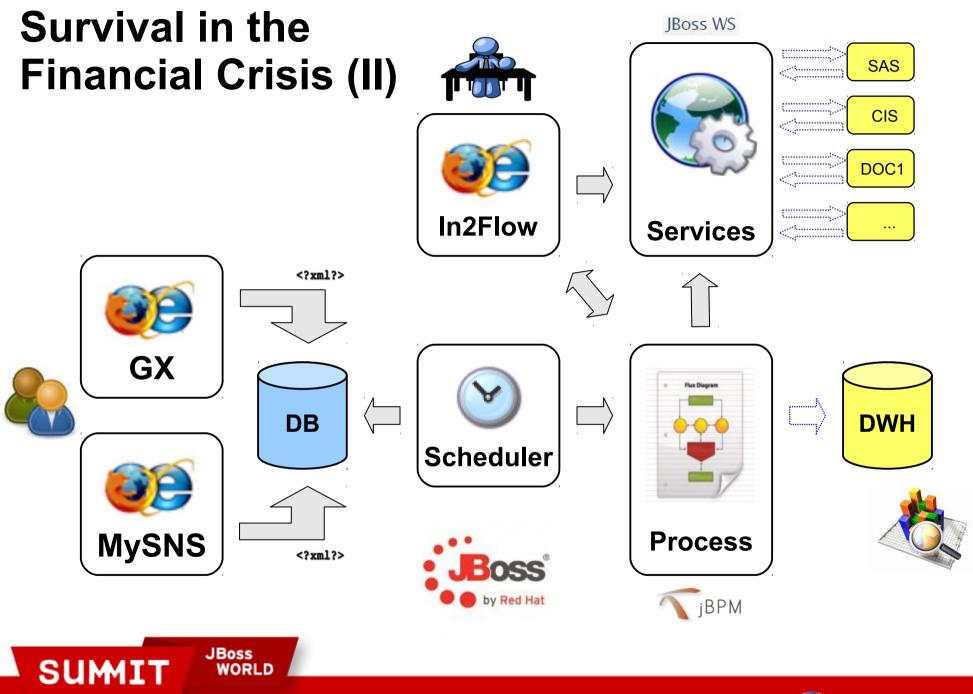




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SNS 😽 Bank



Survival in the Financial Crisis (III)

Empirical data

- Feb Aug 2008 : ~1200 per month
- Sep Feb 2009 : ~3300 per month

Overview effectiveness

- 52% completed on time
- 12% document monitoring
- 8% rejected for various reasons
- 0.7% Human action (functional)
- 0.3% Human action (technical)
- 23% removed, completed by hand
- Best practices / Pitfalls BPM

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BPM impact on IT systems



• Availability: 24 /7

new SLA's, no/less maintenance windows & batch jobs

Integrity: what data is "leading" ?

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integration and normalization of both systems and data

- Security: more open means less secure?
- "new" signing/encryption technologies, WS-Security

=> More agile and flexible: shorter time-to-market



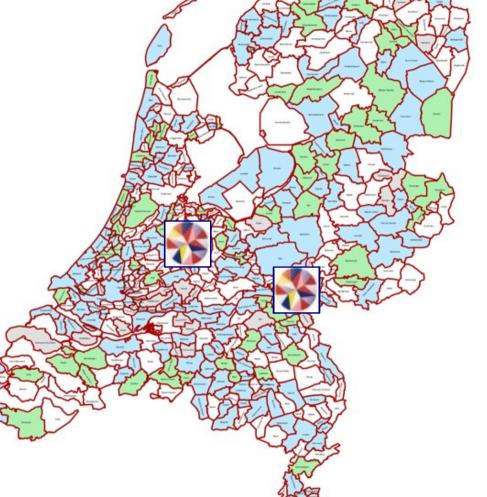


BPM impact on employees

• Don't underestimate:

full scale BPM can cause a major change for personnel!

From Branch Offices to Service Centers







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The BPM console (In2Flow)

SNS Bank Service Center Operations Bancair Start Zoeken Mijn wachtrij(3) Management	IBoss Seam
Werkvoorraad Beoordeel EVA toetsing Binnen SLA: 4 Coegewezen: 1 Door mij: 1 Iechnische uitval Binnen SLA: 5	Samenvatting Amvrage gegenen: Amvrage debitpast(50027) 02:11:2010 Cegevens canvrage Wortetting Beardeel de foto ou de presonnilise pas dor hem te toetsen and de silm oppesteid woor personnilise passen. Voortetting A Tussenvoorgiel Maintermann Wortetting A Nathermann Woffand Nathermann





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BPM impact on employees (2)

- Moving to centralized service centers means:
 - Hard to reach customers without Internet
 - No "human contact" with our customers
 - Less visibility, warmth, trust and reassurance

=> Risk of losing customers









From traditional Branches to "Shops"







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The new distribution model

Internet

"Do it yourself banking"

Stores and customer contact center

Assisted "do it yourself banking"

Financial advice

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Complete online servicing and selling

(excl. complex products)

Provide assistance, lead generation and sales

Selling complex products







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The new "SNS Shop"

- From < 150 traditional branches to > 250 SNS Shops
- Cashless (no deposits, no ATMs)
- DIY banking and assisted banking
- Longer opening hours, opposed to traditional banking hours
- Franchise model for 2/3 of SNS Shops

=> It fills the gaps created by the new BPM solution







Impact on customers

- More freedom in banking
- Quicker service request processing
- Better insight in request status
- Cheaper products & service

NO

- Downsides:
 - Some services are no longer possible (or profitable)
 - Some customers prefer to be served







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Lessons Learned – BPM Console

- One of the key features of a successful BPM solution!
- A not fully automated business process with good BPM console support is cheaper to implement and in the end more valuable to the Business
- Not all tasks can be automated and expect failure
- A productive Service Center is worth its weight in gold







Lessons Learned – Process Status / BAM

BPM needs to be transparent: What's going on?

A centralized process status is essential to provide the correct information to both customers and employees

- Not everything has to be STP, as long as it's visible
- Implement BAM (Business Activity Monitoring) to continuously improve your processes







Lessons Learned – Business / IT mismatch

- A business process definition ≠ jBPM process flow
- Mind-shift from "systems" to "services"

Try to close the gap between Business & IT

- Appoint Business Process Architects and involve them!
- BPMN-2 looks promising (jBPM v5)







Lessons Learned – Maintainability

• Expect your BPM solution to be a success!

Modularize every aspect of your BPM architecture

- Avoid "exploding" data models or monolithic systems
- Use shared modules (framework, sub-processes)
- Minimize dependencies between modules







Lessons Learned – Process Updates

- How to update long-running processes (e.g. 6 months)
- Ideally, a business process is fully idempotent
- Unfortunately, a lot of legacy systems are not

Process logic that's subject to change should be extracted from the process and moved into services (static) or a rules engine (dynamic)

Use versioning and respect backwards compatibility







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Conclusions

Open Source Software today is a very rewarding and mature alternative to expensively licensed solutions.

Especially with commercial OSS support - such as Redhat offers for the JBoss platform - there are no drawbacks

Full scale BPM is much more than "just another IT trick". To be successful you must be prepared to fully involve and change your Business







Results



- Expectations for the end of 2012
 - 20% increase in main bank customers
 - Three times more online sales
 - 40% decrease in branch operating costs
 - Doubling of complex product sales (mobile sales advisors)
- Forrester Case Study

How SNS Bank Put The Web At The Heart Of Its New Multichannel Strategy

http://www.forrester.com/rb/Research/case_study_how_sns_bank_put_web/q/id/57867/t/2

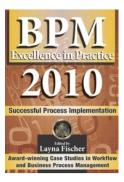












Our implementations of jBPM and JBoss EAP:

http://customers.redhat.com/2009/07/31/sns-bank-success-story-jboss-jbpm/ http://customers.redhat.com/2007/11/05/sns-bank-migrates-to-jboss-enterprise-platform/ http://www.schabell.org/2010/11/jfall-2010-rocking-jbpm-tasks-with.html

2009 Silver award for Global Excellence in BPM & Workflow

http://www.schabell.org/2009/04/2009-bpm-workflow-handbook-financial.html http://www.schabell.org/2009/11/2009-silver-winner-for-europe-financial.html http://www.schabell.org/2010/09/financial-crisis-front-lines-sns-bank.html















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